Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A method (**800**) for improving a quality of a scalable video object plane enhancement layer transmission over an error-prone network, the enhancement layer transmission including at least one re-synchronisation marker followed by a Video Packet Header and header extensions, the method comprising the steps of:

replicating a reference VOPs' identifier from a video object plane header into a number of enhancement layer header extensions (**715**);

recovering (**830, 840, 850, 860**) from an error corrupting said reference VOPs' identifier by decoding a correct reference VOPs' identifier from subsequent enhancement layer header extensions; and

identifying (**870, 880**) correct reference video object planes to be used in a reconstruction of an enhancement layer video object plane in the scalable video transmission;

wherein the scalable video object plane enhancement layer transmission is <u>based on</u> an MPEG-4 scalable video object plane enhancement layer transmission [[,]] ~~or similar~~, and the reference VOP's identifier is a 'ref_select_code' field (**715**).

2. (Original) The method for improving a quality of a scalable video object plane enhancement layer transmission over an error-prone network according to claim 1, wherein the step of recovering includes the steps of:

estimating (**830**) a reference VOPs' identifier when an error has occurred in the reference VOPs' identifier;

decoding **(840)** the video object plane enhancement layer transmission until a video object plane enhancement layer header extensions is decoded; and

correcting **(850)** said estimated reference VOPs' identifier in response to a reference VOPs' identifier extracted from said decoded header extensions.

3. (Original) The method for improving a quality of a scalable video object plane enhancement layer transmission over an error-prone network according to claim 1, wherein the step of recovering includes the steps of:

buffering **(860)** video object plane enhancement layer transmission bits, until a video object plane enhancement layer header extensions is decoded, when an error has occurred in the reference VOPs' identifier; and

correcting **(870)** said reference VOP's identifier in response to a reference VOPs' identifier extracted from said decoded header extensions.

4. (Original) The method for improving a quality of a scalable video object plane enhancement layer transmission over an error-prone network according to claim 1, further comprising the step of:

selecting **(870, 880)** a correct reference VOP's identifier to decode subsequent enhancement layer transmissions.

5. (Currently Amended) A video communication system (**600**) comprising:

a video encoder (**615**) comprising:

a processor for encoding a scalable video sequence having a plurality of enhancement layers, wherein the enhancement layer transmission includes at least one re-synchronisation marker followed by Video Packet Header and header extensions;

replicating means for replicating a reference VOP's identifier from a video object plane header into a number of enhancement layer header extensions (**715**); and
a transmitter for transmitting said scalable video sequence containing said one or more reference VOPs' identifier; and

a video decoder (**625**) comprising:

a receiver for receiving said scalable video sequence containing said video object plane enhancement layer header extensions (**715**) from said video encoder;

a detector detecting one or more errors in said reference VOP's identifier in an enhancement layer of said received scalable video sequence; and

a processor operably coupled to said detector for recovering (**830, 840, 850, 860**) from an error corrupting said reference VOPs' identifier by decoding a correct reference VOP's identifier from subsequent enhancement layer header extensions when said one or more errors is detected, and identifying (**870, 880**) correct reference video object planes to be used in a reconstruction of an enhancement layer video object plane in the scalable video transmission;

wherein the scalable video object plane enhancement layer transmission is <u>based on</u> an MPEG-4 scalable video object plane enhancement layer transmission [[,]] ~~or similar~~, and the reference VOPs' identifier is a 'ref_select_code' field (**715**).

6. (Currently Amended) A video communication unit (**615, 625**) adapted for use in the method of <u>claim 1</u> ~~any of claims 1 to 4 or adapted for use in the communication system of claim 5~~.

7. (Currently Amended) A video encoder (**615**) adapted for use in the method of <u>claim 1</u> ~~any of claims 1 to 4 or adapted for use in the communication system of claim 5~~.

8. (Currently Amended) A video decoder (**625**) adapted for use in the method of <u>claim 1</u> ~~any of claims 1 to 4 or adapted for use in the communication system of claim 5~~.

9.(Currently Amended) A mobile radio device comprising a video communication unit in accordance with claim 6 ~~or a video encoder in accordance with claim 7 or a video decoder in accordance with claim 8~~.

10. (Original) A mobile radio device according to claim 9, wherein the mobile radio device is a mobile phone, a portable or mobile PMR radio, a personal digital assistant, a lap-top computer or a wirelessly networked PC.

11. (New) A video communication unit adapted for use in the communication system of claim 5.

12. (New) A video encoder adapted for use in the communication system of claim 5.

13. (New) A video decoder adapted for use in the communication system of claim 5.

14. (New) A mobile radio device comprising a video encoder in accordance with claim 7.

15. (New) A mobile radio device comprising a video decoder in accordance with claim 8.